

Title (en)

VERTICAL FIELD-EFFECT TRANSISTOR AND METHOD FOR FORMING SAME

Title (de)

VERTIKALER FELDEFFEKTTRANSISTOR UND VERFAHREN ZUM AUSBILDEN DESSELBEN

Title (fr)

TRANSISTOR À EFFET DE CHAMP VERTICAL ET SON PROCÉDÉ DE FORMATION

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Application

EP 20780665 A 20200924

Priority

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Abstract (en)

[origin: WO2021089230A1] The invention relates to a vertical field-effect transistor (200, 300, 400, 500, 600) having: a drift region (204); a semiconductor fin (230) on or above the drift region (204); a connection region (212) on or above the semiconductor fin (230); and a gate electrode (220), which is formed next to at least one side wall of the semiconductor fin (230), the semiconductor fin (230) having a smaller lateral extent in a first portion (208), which is arranged laterally next to the gate electrode (220), than in a second portion (206), which contacts the drift region (204), and/or than in a third portion (210), which contacts the connection region (212).

IPC 8 full level

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